

CLAIMS

What is claimed is:

1. A method for manufacturing a composite part having an outer skin that is visible when the composite part is installed in a vehicle, comprising:

providing a foil part having the outer skin, the foil part having a removable protective foil disposed on a front side of the outer skin, the protective foil having an outer side;

reworking the protective foil to smooth a surface of the outer side of the protective foil;

placing the foil part together with the protective foil in a die; and

applying a plastic layer via a high-pressure process on a rear side of the outer skin.

2. The method as recited in Claim 1, wherein the high-pressure process used in the step of applying the plastic layer is selected from the group consisting of back-foaming and injection-molding.

3. The method as recited in Claim 1, further comprising reshaping the foil part after the reworking step.

4. The method as recited in Claim 1, further comprising reshaping the foil part after the providing step and before the reworking step.

5. The method as recited in Claim 1, further comprising plastically reshaping the foil part under an influence of heat.

6. The method as recited in Claim 1, further comprising reshaping the foil part to obtain a trough-like shape.

7. The method as recited in Claim 1, wherein the foil part comprises a thermoplastic material.

8. The method as recited in Claim 1, wherein the foil part includes a two-layer co-extruded foil.

9. The method as recited in Claim 1, further comprising introducing a plurality of reinforcing fibers into the plastic layer.

10. The method as recited in Claim 1, wherein the high-pressure process used in the step of applying the plastic layer is selected from the group consisting of back-foaming and injection-molding, and wherein the method includes a step of introducing a plurality of glass fibers into the plastic layer.

11. The method as recited in Claim 10, wherein the step of introducing the plurality of glass fibers into the liquid foam material is conducted via a Long Fiber Injection method.

12. The method as recited in Claim 1, wherein the step of reworking the protective foil comprises polishing the protective foil on the outer side.

13. The method as recited in Claim 1, wherein the composite part is a mount-on vehicle body panel.

14. A mount-on vehicle body panel, comprising:

a foil part having an outer skin that is visible when the mount-on vehicle body panel is installed and a removable protective foil disposed on a front side of the outer skin, the protective foil having an outer side wherein the protective foil has been reworked to smooth a surface of the outer side of the protective foil, and wherein the foil part together with the protective foil was placed in a die; and

a plastic layer that was applied via a high-pressure process in the die on a rear side of the outer skin.

15. The mount-on vehicle body panel as recited in Claim 14, wherein the foil part was reshaped after the protective foil was reworked.

16. The mount-on vehicle body panel as recited in Claim 14, wherein the foil part has a trough-like shape.

17. The mount-on vehicle body panel as recited in Claim 14, wherein the foil part comprises a thermoplastic material.

18. The mount-on vehicle body panel as recited in Claim 14, wherein the foil part includes a two-layer co-extruded foil.

19. The mount-on vehicle body panel as recited in Claim 14, further comprising a plurality of reinforcing fibers in the plastic layer.

20. The mount-on vehicle body panel as recited in Claim 19, wherein the plurality of reinforcing fibers are glass fibers.

21. The mount-on vehicle body panel as recited in Claim 14, wherein the protective foil has an outer side, and wherein the protective foil was reworked by polishing the protective foil on the outer side.

22. An intermediate product for manufacturing a composite part, in particular, a vehicle part, comprising:

a reshaped foil part having a front side; and

a protective foil applied on the front side of the reshaped foil part and covering the front side of the reshaped foil part, wherein the protective foil has an outer side that has been reworked to remove rough areas on the front side of the reshaped foil part.

23. The intermediate product as recited in Claim 22, wherein the outer side of the protective foil was reworked via polishing.